# SUMIT GHOSH

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## EDUCATION

**Indian Institute of Technology (BHU) Varanasi**                                           **2021 − 2025**
*B.Tech - Mechanical engineering - **CGPA - 8.06***                              *Varanasi, Uttar Pradesh*

## TECHNICAL SKILLS

**Languages/Dev Tools:** C++, Python, SQL, Golang, Linux, Git, Github, Docker, Blockchain
**Development Frameworks:** ReactJS, NextJS, NodeJS, ExpressJS, Django, Gin Web Framework, Firebase
**Interests:** Data Structures and Algorithms, Competitive Programming, Web Development, Open Source, OOPS, DBMS, OS

## EXPERIENCE

**Intern at Neuronexus Innovations**                                           **May 2024 - July 2024**
*Role - Web Developer*                                                                      *Remote*
- Migrated the job portal from **React.js** to **Next.js**, enhancing performance with **SSR** and **SSG**, reducing load times.
- Leveraged **SSR** in Next.js to improve **SEO** by enabling search engines to index dynamic job details, company profiles, and search results, increasing organic traffic.
- Rewrote and optimized component logic to enhance code maintainability and reusability.
- Enhanced website responsiveness with a mobile-first approach and used **TailwindCSS** for consistent styling.

## PROJECTS

**Golang Media** ↗ | Golang, PostgreSQL, React.js, Redis, Docker, TailwindCSS
- Developed **Golang Media**, a **social media platform** where users can create posts, view others' posts, comment, and follow other users.
- Designed a **containerized 3-tier architecture** with **Docker**, **Redis caching**, and **Mailtrap mailing** for modular third-party service integration.
- Implemented **JWT authentication**, **email verification**, **role-based authorization**, and **API rate limiting** for **security.**
- Developed **paginated user feeds**, **structured logging**, and **database seeding** for a seamless experience.
- Automated workflows using **Makefile** and ensured reliability with **unit** and **mock tests.**

**AgroKart** ↗ | React.js, Node.js, Express.js, TailwindCSS, Firestore, GCP
- Developed a **CRUD** app connecting farmers with buyers and service providers for direct sales and market access.
- Built **APIs** and **Middleware** to optimize data processing and boost performance and scalability.
- Deployed the entire application on **Linux-based VM instances** on **Google Cloud Platform**.

**Path Finder** ↗ | HTML, CSS, JavaScript, Graph Algorithms
- Developed a website called **Path Finder** that helps in visualizing various **Path Finding Algorithms**.
- Utilized algorithms such as **BFS**, **DFS**, **Dijkstra**, and **Best First Search** to visualize the path from source to destination on a grid.
- Added features such as random maze generation, counting path nodes, and visited nodes.

## HONOURS AND ACHIEVEMENTS

- Specialist at **Codeforces** with a rating of **1418** — Handle: `HoLaAmIgOs`
- 3-Star Coder at **CodeChef** with a rating of **1702** — Handle: `dark_knight_47`
- Solved **650+** problems on **LeetCode** — Handle: `Z-gen`
- Ranked **32nd** globally in **HackSquad** with team `LIONAJO`, contributing **149 open-source contributions**.
- Completed **Hacktoberfest 2023**, highlighting commitment to open-source and community efforts.
- Made **450+** contributions on **GitHub**, including contributions to the `Rocket.Chat` organization with **10+ merged PRs**.